Fig 1 lists the Typical Minimum Acceptable Bit Error Rates.

Bit Error Rate and Error Correction Criteria:

Typical Minimum Acceptable Bit Error Rate

Video: 10^{-5} *BER*

Audio: 10^{-3} *BER*

Data: 10^{-10} *BER*

Fig 1

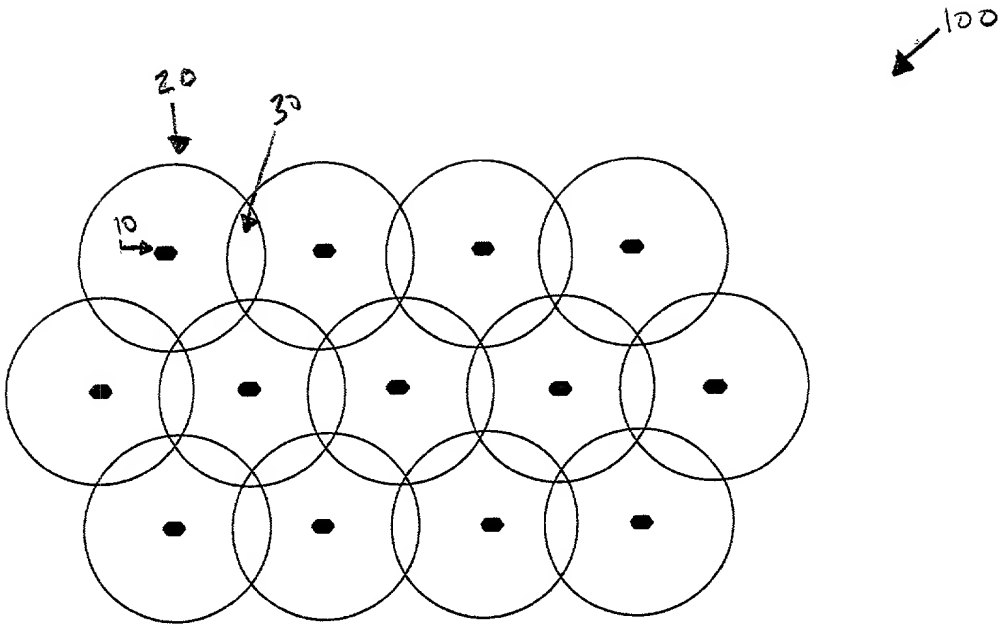


Fig 2 - Base Station Architecture
(showing overlapping coverage)

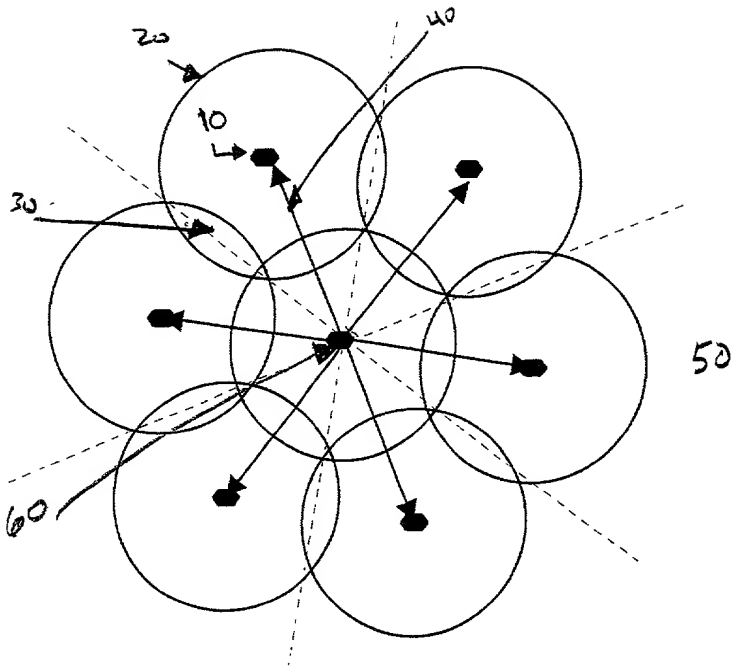


Fig 3 - Single Base Station (showing connectivity to six other Base Stations for handoff and channel co-ordination)

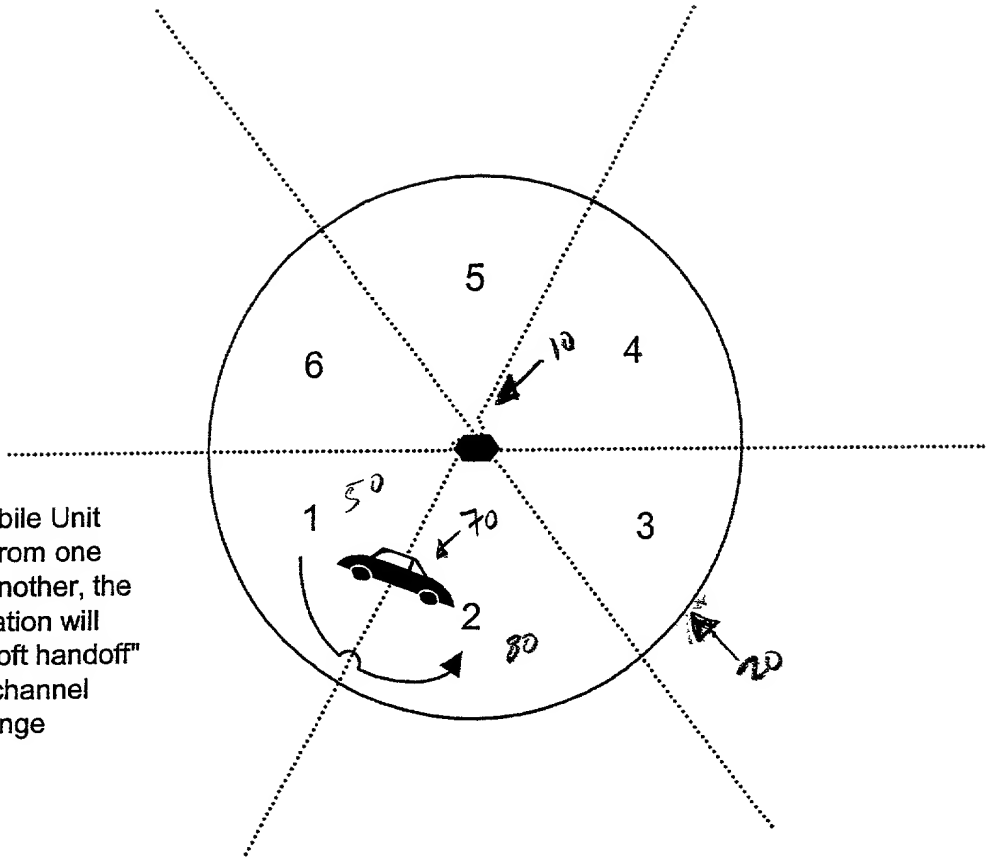


Fig 4 - Sectorization at UWB Base Station

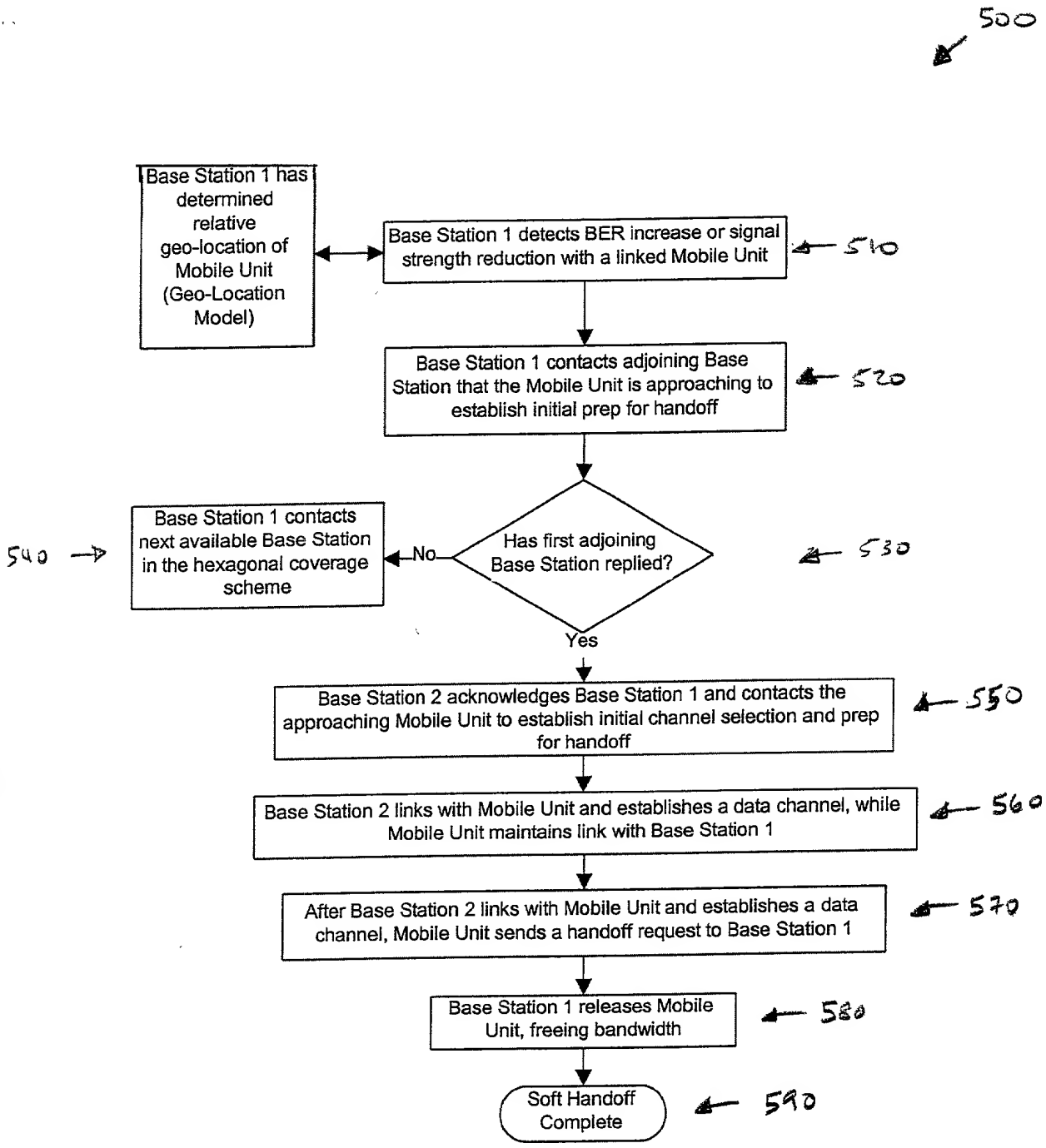


Fig 5 - Soft Handoff Scenario #1: Base Station to New Base Station to Mobile Unit

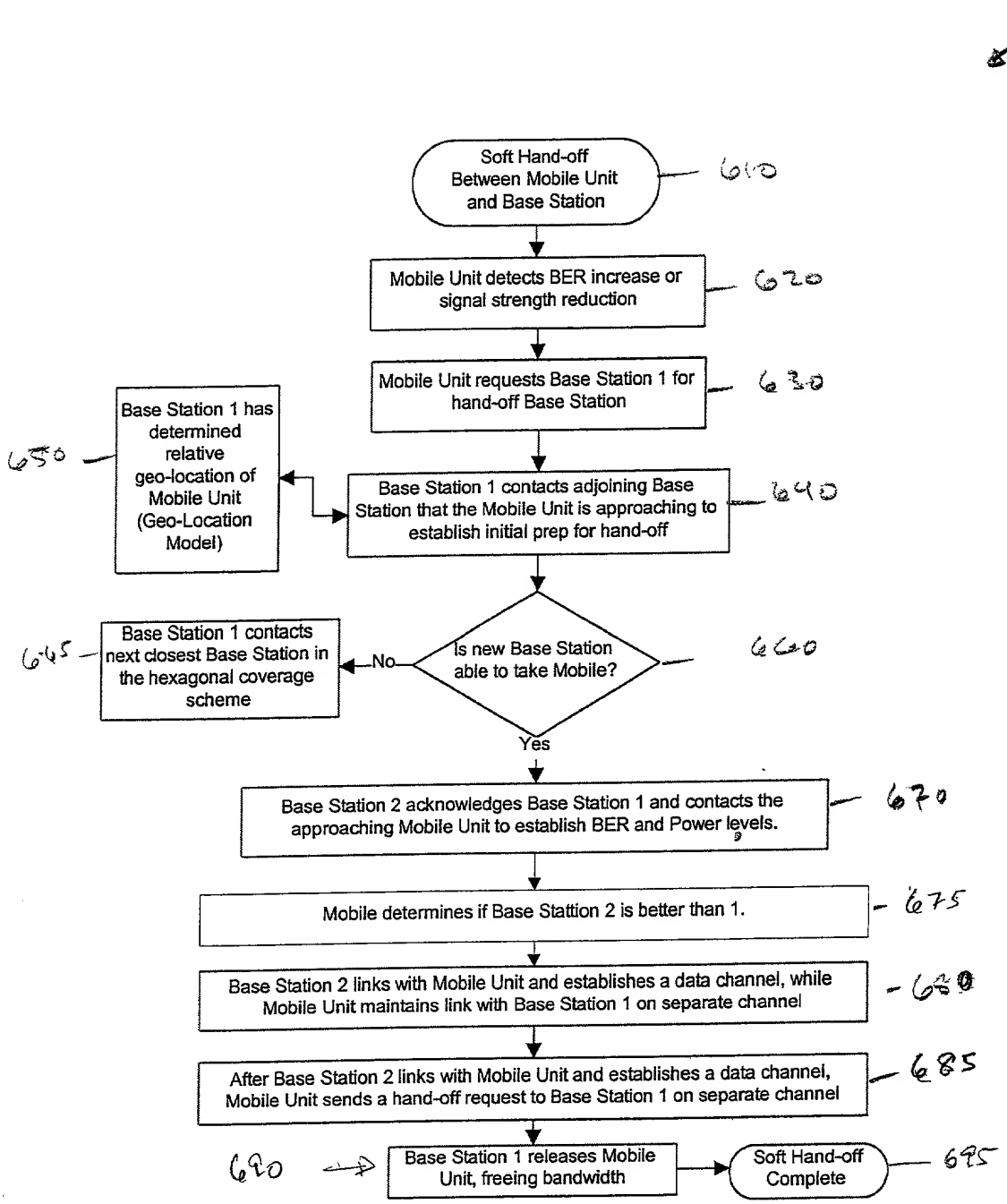


Fig 6 - Soft Hand-off Scenario #2: Mobile Unit to Base Station to New Base Station

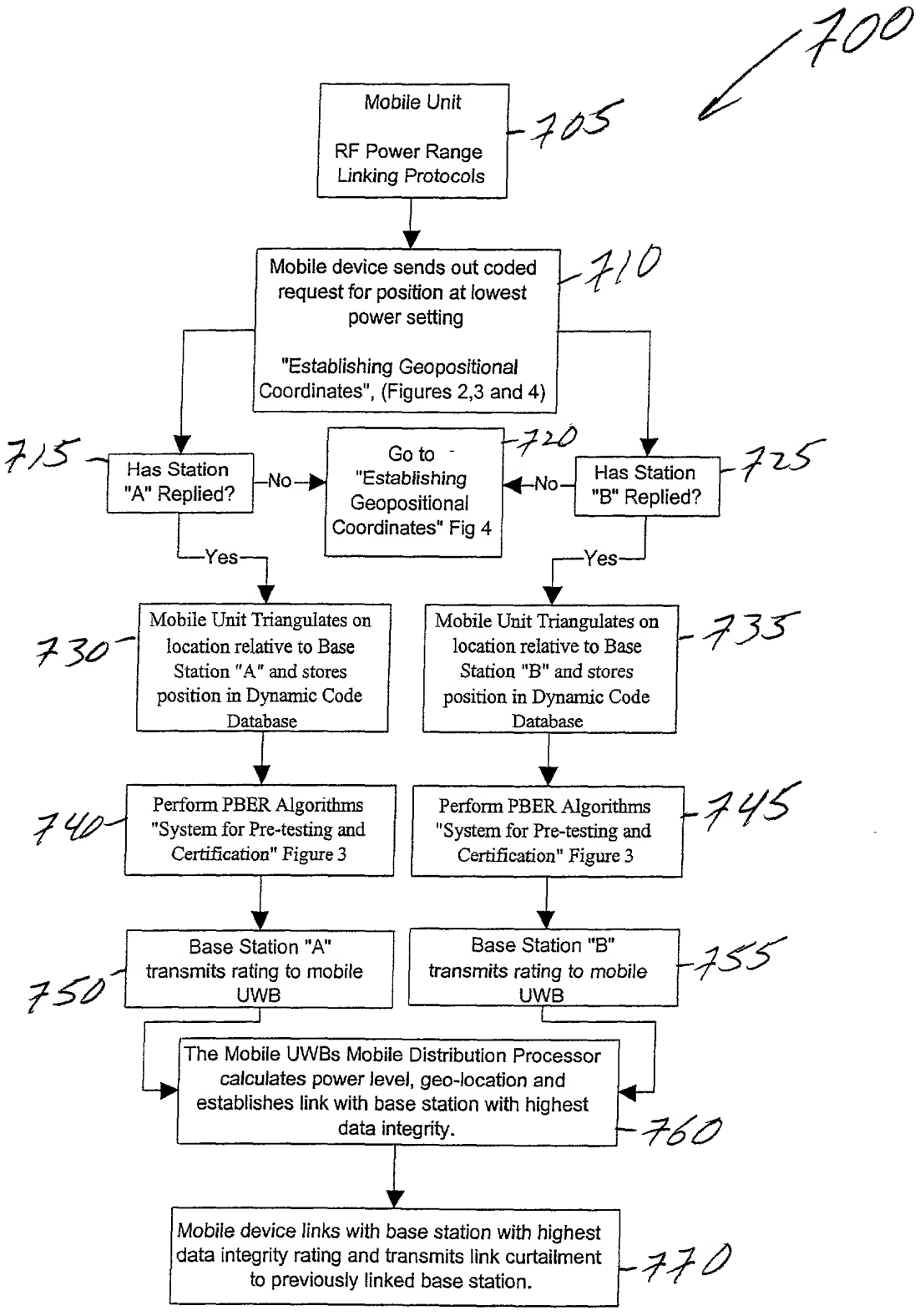
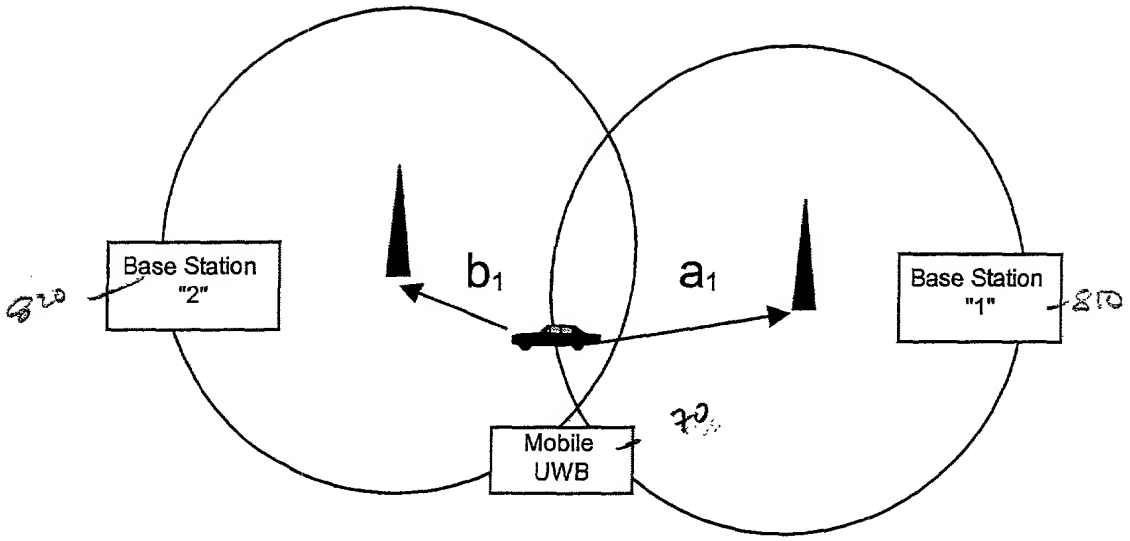


Fig 7 - Soft Hand-off Scenario #3: Performs Dynamic Power Range Linking



Mobile UWB is leaving range of Base Station "1" and is now within the range of Base Station "2"
(Transmission distances are indicated by a1 and b_1)

Fig 8 - Power-Range Linking Model for soft hand-off
(Mobile leaving coverage of Base Station "2")

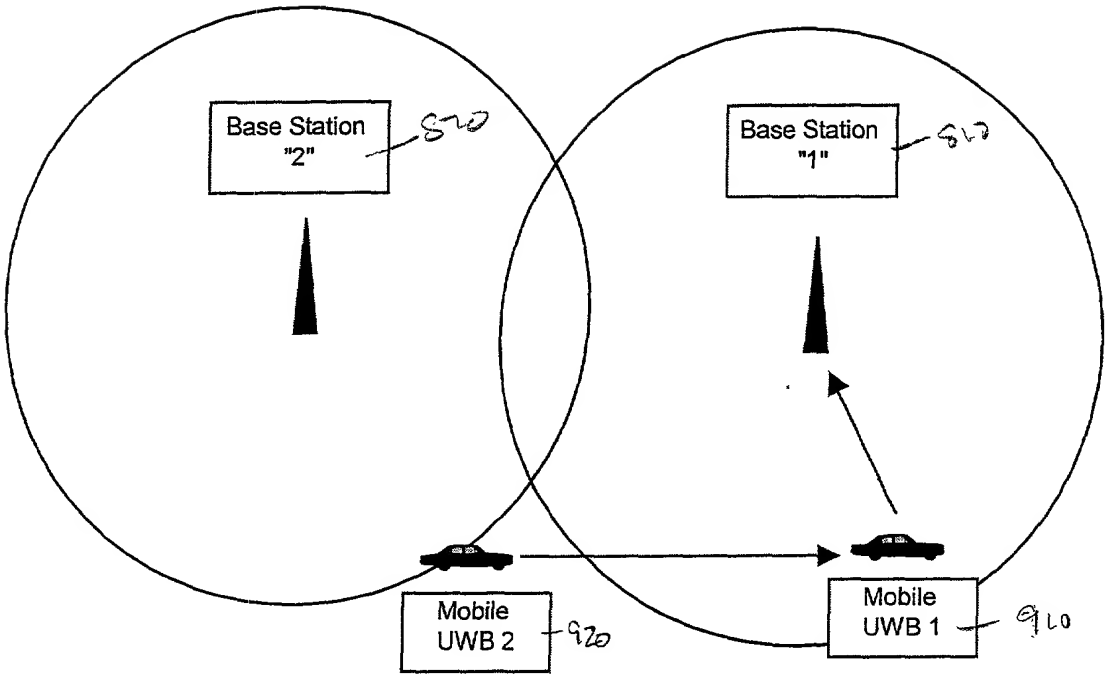


Fig 9 - Soft Hand-off Scenario #4 (Mobile Unit to Mobile Unit to Base Station, also providing emergency geo-locationing)

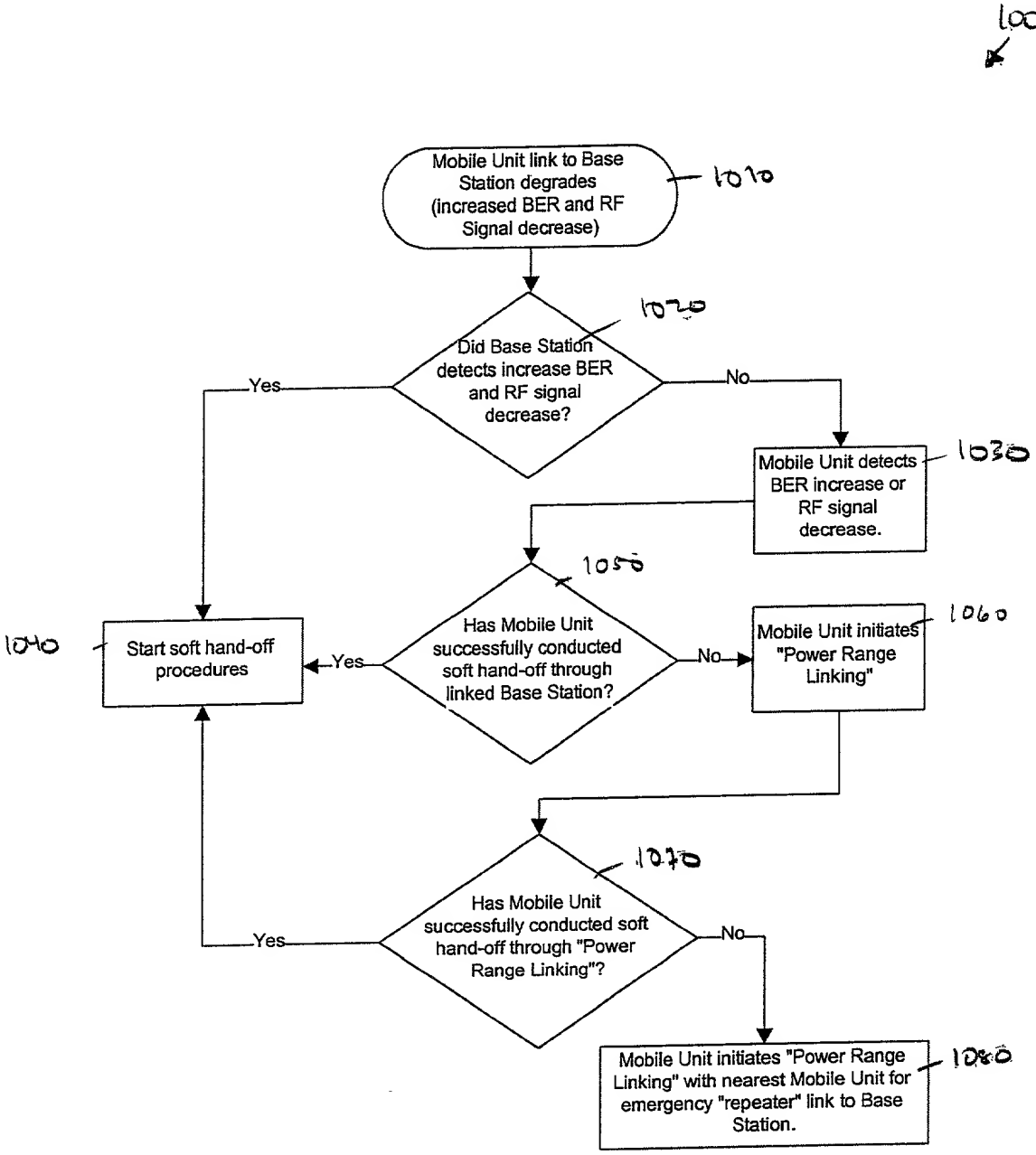


Fig 10 - Soft Hand-off procedures for Scenarios 1 through 4

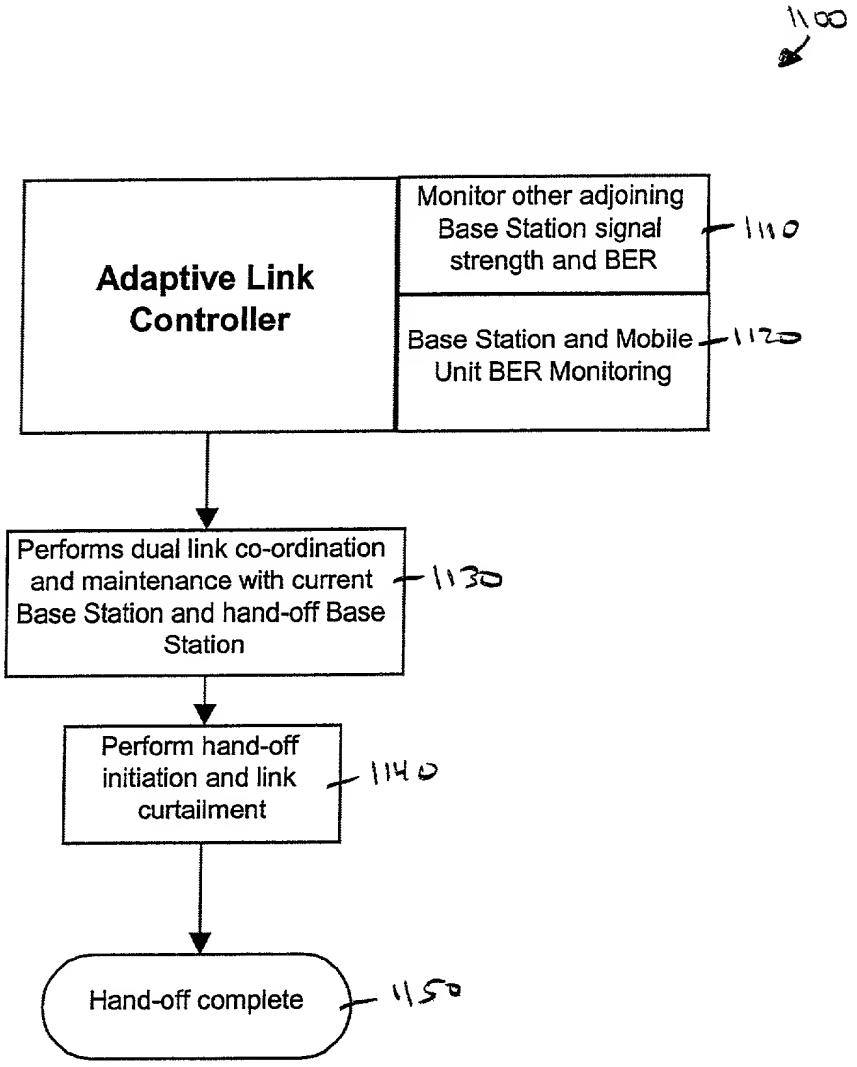


Fig 11 - Adaptive Link Controller